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MAPC-19911
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1 October 1957

MEMORANDUM FOR : Chief, Engineering Division, OC

ATTENTION :

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SUBJECT : System II Field Engineering Services

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1. Reference is made to a discussion with [REDACTED] of your office concerning System II Field Engineering Services.

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2. The biggest problem of the undersigned in the past has been identifying the Office of Communications program from that of another customer to whom you are furnishing services. Accordingly, even the Contractor has considered Customer No. 2 (COMMO) as a single entity, and furnishes his proposals in this light.

3. We believe all engineering field services rendered prior to 30 June 1957 are adequately funded, but until final costs are determined we cannot guarantee this. The attached Exhibit A is a proposal for the period 1 July 1957 to 30 December 1957 and covers Contract [REDACTED] charges only. We have forwarded only Items 1, 3, and 8 which apply to your work. We have attached a cost estimate indicating our estimate of the dollars needed for this work.

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4. Exhibit D, which is in your possession, concerns Field Engineering Services under another contract for the period 1 July 1957 to 30 December 1957. Initially, work after 1 July was to have been covered by a contract to be written elsewhere. At the specific request of [REDACTED] Office of Communications was permitted to continue charging our contract for these services. Item 1, we understand, is COMMO, and is completed. Item 2 is possibly [REDACTED] but you would know better. To date, no funds have been received, nor to our knowledge has a contract been written by another activity to cover this work. It will be necessary for Customer No. 2 (COMMO or [REDACTED]) to cover charges

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DATE: 12/18/82 REVIEWER: 010856

allocated against Project Funds from 1 July 1957 to the writing of this contract by another activity. The balance of the \$25,000 (estimated) to 31 December 1957 would then be furnished to the new contracting activity to cover the remainder of the period.

5. The fact that this Project has furnished certain services to your office is not to be disseminated to persons without a need to know.

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[REDACTED]
Project Contracting Officer

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PS/DCI: [REDACTED] pf (10/1/57)

Distribution:

Orig - Chief, Eng.Div., OC

2 - Contract [REDACTED]

3 - "

4 - Proj. Comptroller

5 - Proj. Chrono

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16 September 1957

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**STATEMENT OF WORK
SYSTEM 2 - FLIGHT TEST**

The Contractor proposes to provide the necessary engineering services, labor, facilities, and material to perform the following work:

<u>Item</u>	<u>Description</u>
1	Conduct a preliminary testing program of the System 2 Airborne Equipment as described in the accompanying Technical Proposal (CMCC Doc. No. 1133X5.50)
2	Conduct an evaluation program of the System 2 Airborne Equipment as described in the accompanying Technical Proposal (CMCC Doc. No. 1133X5.50)
3	Modify the Contractor's Seal Beach facility as described in the accompanying Technical Proposal (CMCC Doc. No. 1133X5.50)
4	Procure, package and ship, spare parts and tools necessary for conducting the program described in Items 1 and 2.

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Page 1 of 1Proposal: [REDACTED]
16 September 1957

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**DELIVERY SCHEDULE
SYSTEM 2 - FLIGHT TEST**

The Contractor shall complete the program outlined in the Statement of Work in accordance with the following schedule:

<u>Item</u>	<u>Schedule</u>
1	<u>Preliminary Test Program -</u> 30 September 1957
2	<u>Evaluation Program -</u> 14 October 1957
3	<u>Modification of Seal Beach Facility -</u> Prior to 30 September 1957
4	<u>Spare Parts and Tools -</u> 14 October 1957

Note: This schedule is contingent upon participation by the Customer in the flight testing program at the times indicated.

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Proposal: [REDACTED]
16 September 1957

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TECHNICAL PROPOSAL SYSTEM 2 - FLIGHT TEST

1. Scope

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This proposal covers the furnishing of field-engineering services at [REDACTED] and Seal Beach, California in support of System 2 flight tests to be conducted during the months of October and November 1957. In addition, costs of providing a rhombic antenna at the Seal Beach base station oriented on a great circle course to [REDACTED] and the furnishing of one set of System 2 airborne equipment spare parts, and tools are included.

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2. Proposed Services and Materials

a. The Contractor will furnish field engineering services necessary to accomplish the following tasks:

(1) preliminary tests of the System 2 airborne equipment installation including flight tests in the vicinity of Los Angeles, California commencing approximately 30 September 1957.

(2) operation, test and maintenance of the System 2 base-station equipment at Seal Beach, California and test and maintenance of the airborne equipment at [REDACTED] for a period of 45 days during an evaluation program commencing about 14 October 1957.

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b. Operations at Seal Beach will require two men because of safety requirements. The two and one-half hour round-trip travel time to this facility makes the use of a 50-hour extended work week desirable. Operations at the local aircraft base and [REDACTED] will require one man.

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c. A complete System 2 base station consisting of receiving equipment, transmitting terminal equipment and a Collins 231D-20 transmitter has been established at the Contractor's Seal Beach facility. This facility, erected on a 15-acre tract, consists of a building housing the equipment and a two-wire, class C transmitting rhombic antenna oriented on a true bearing of 60 degrees, approximately the great circle bearing to Omaha, Nebraska. Communication with an aircraft operating in the

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MCC Doc. No. 1133X5.50

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16 September 1957

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**TECHNICAL PROPOSAL
SYSTEM 2 - FLIGHT TEST
(Continued)**

vicinity of Pensacola, Florida will require an antenna oriented on a true bearing of 87.5 degrees. The required antenna facility will be provided by the installation of new poles to which the existing antenna, feed line and termination line will be transferred for the duration of the tests. On completion of the program the antenna will be restored to the original poles, leaving the new poles in place.

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d. The System 2 airborne equipment is highly miniaturized and utilizes many components not generally available in military electronics supply channels, such as silicon junction transistors and tantalum electrolytic capacitors. In order to assure that maintenance parts and specialized tools will be available at [REDACTED] during the evaluation program, the Contractor proposes that one set of System 2 selected spare parts and a technician tool box be furnished.

e. It is assumed that the customer will make test equipment available from the set of test equipment for the System 2 airborne equipment which has been shipped to the customer's Washington, D. C. area facility.

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